FIG. 1

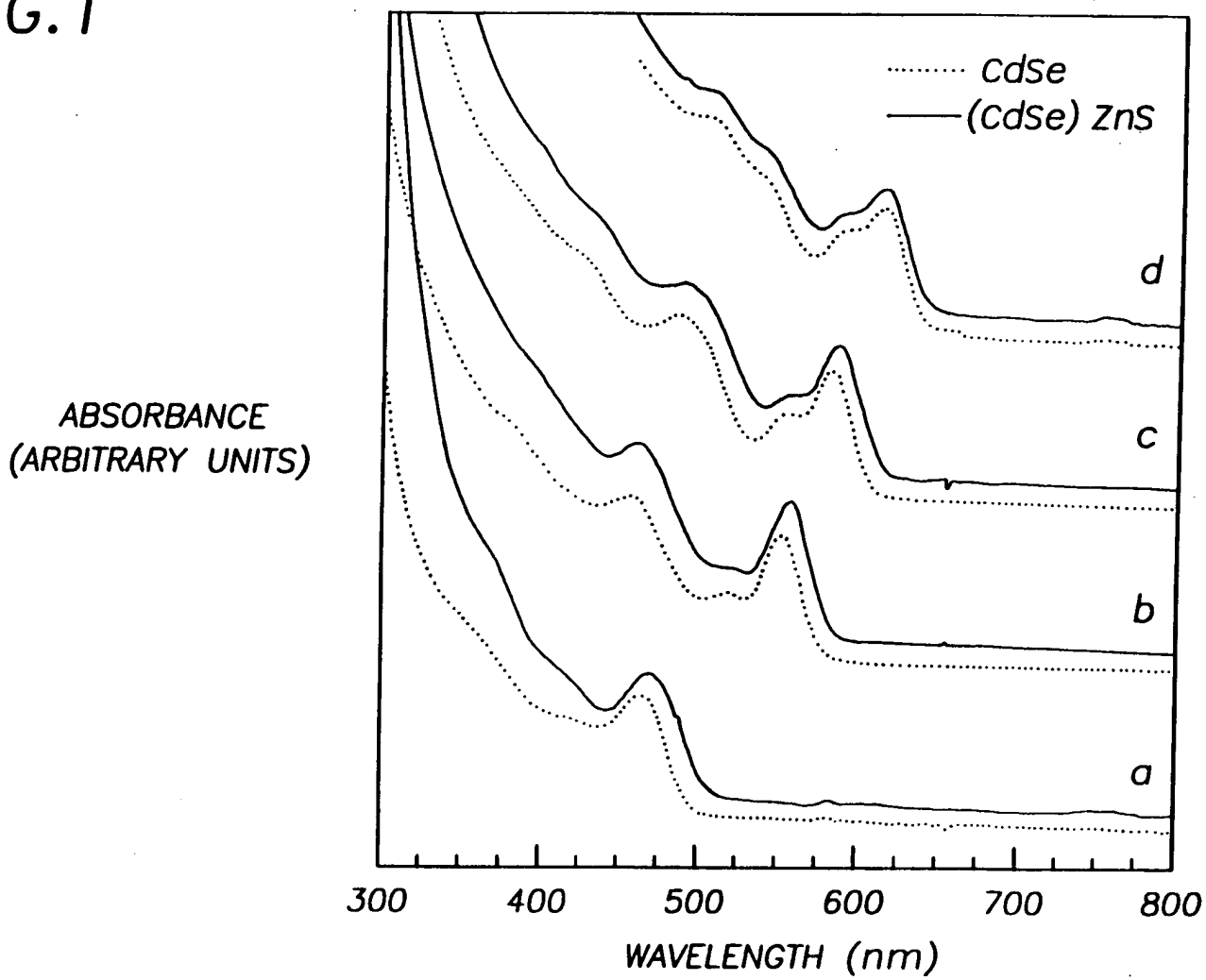

CdSe
(CdSe) ZnS
d
c
b
a
ABSORBANCE
(ARBITRARY UNITS)
300
400
500
600
700
800
WAVELENGTH (nm)

FIG. 2

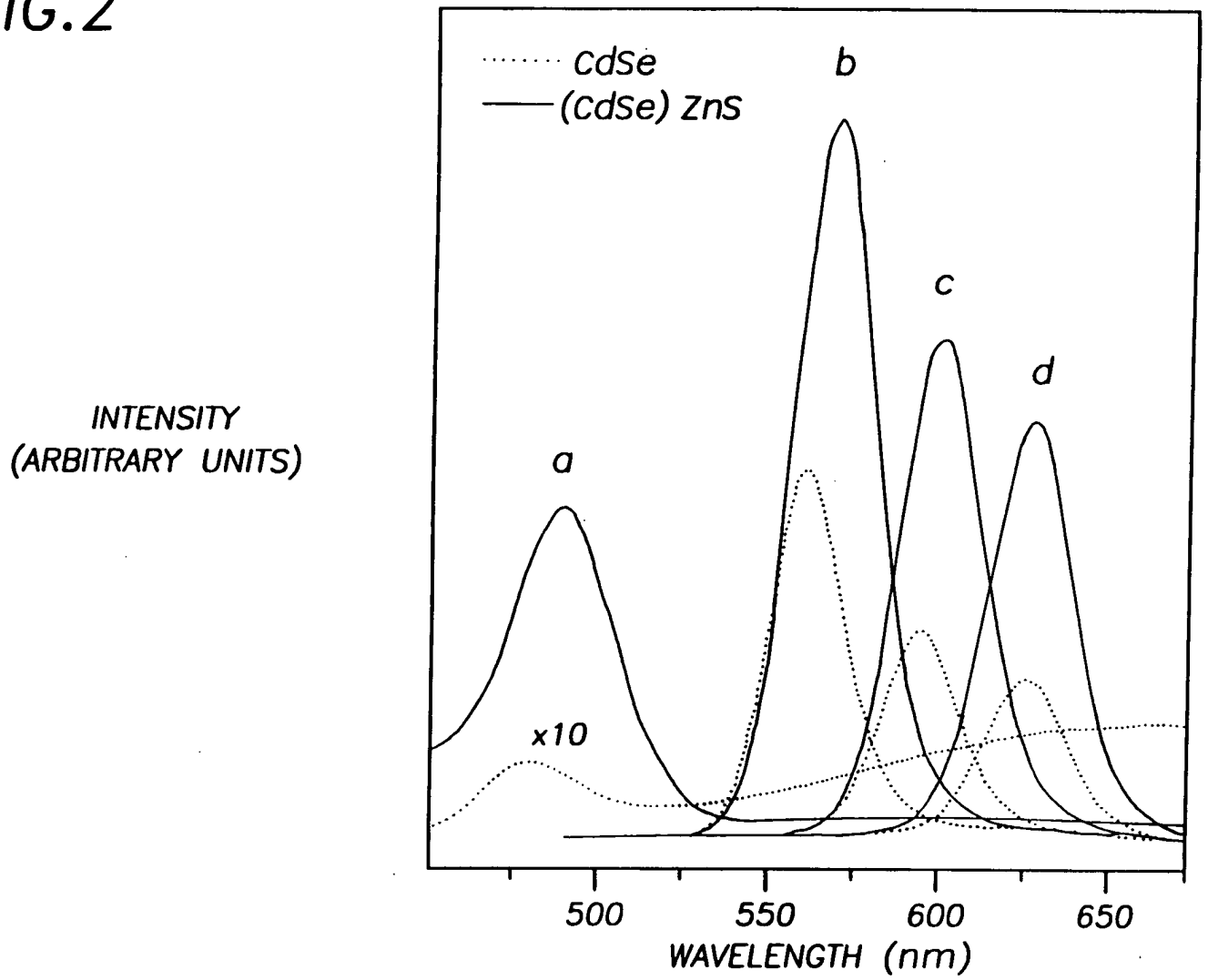

cdSe
(cdSe) ZnS
a
b
c
d
x10
INTENSITY
(ARBITRARY UNITS)
500
550
600
650
WAVELENGTH (nm)

FIG. 4

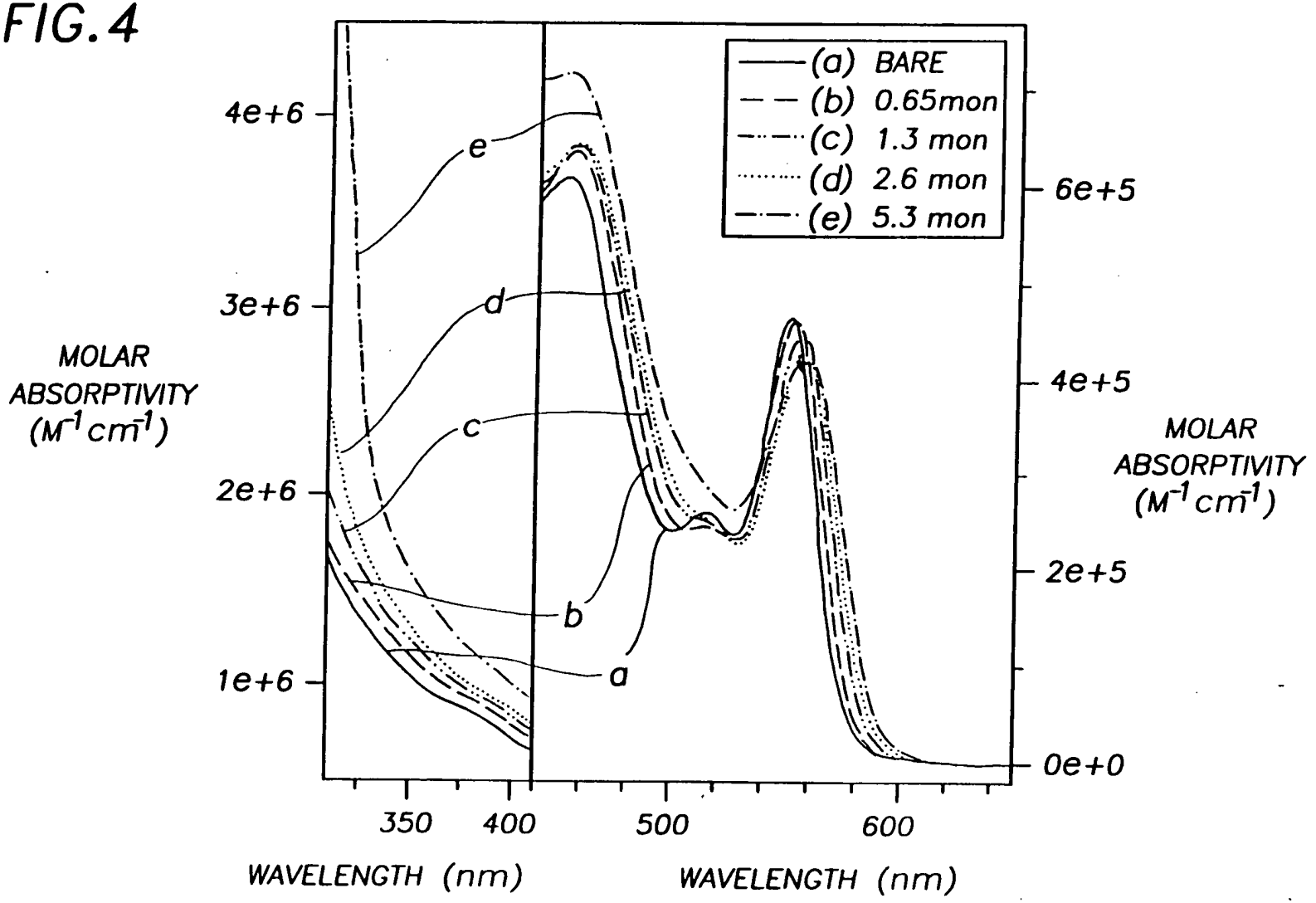
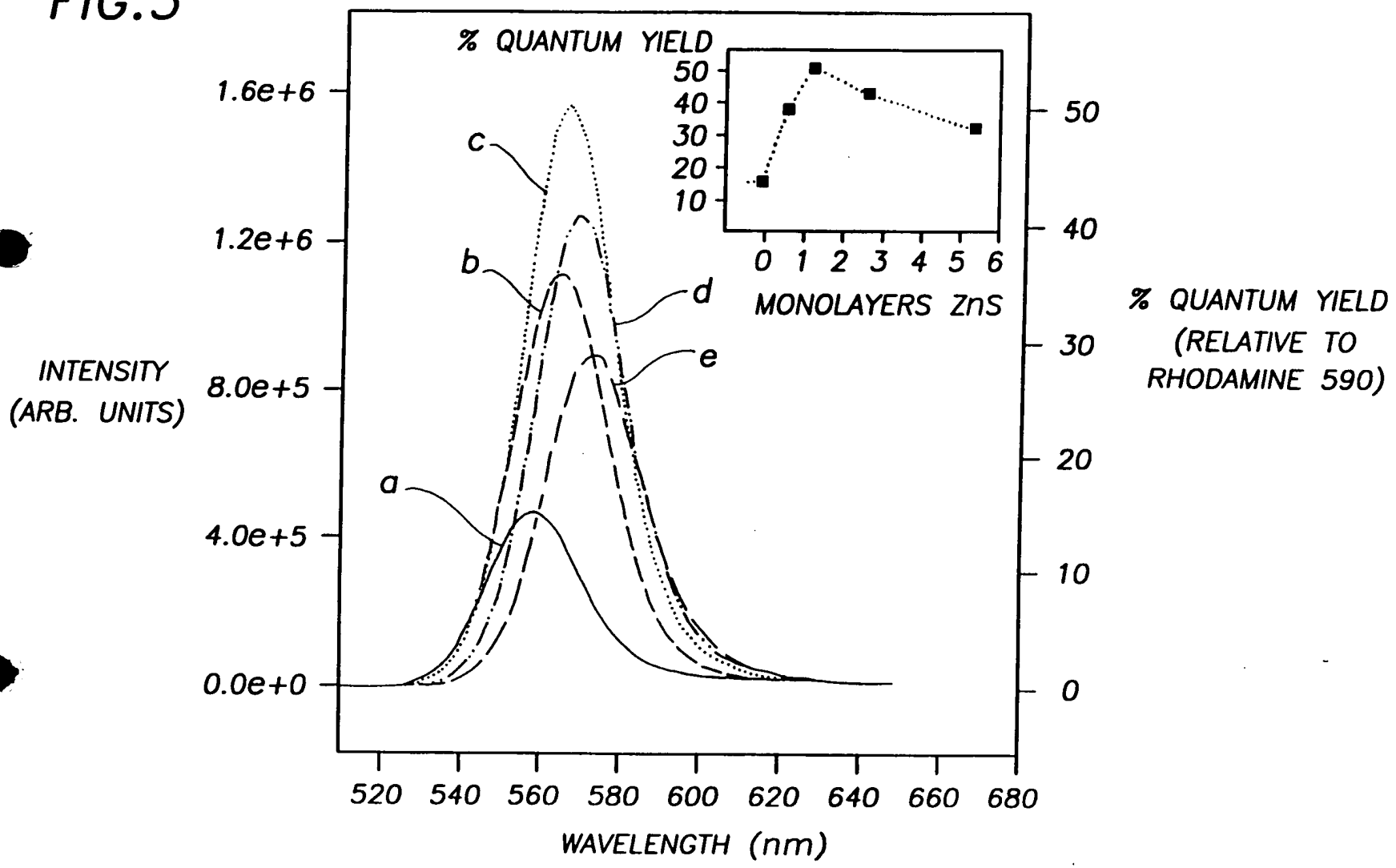

(a) BARE
(b) 0.65mon
(c) 1.3 mon
(d) 2.6 mon
(e) 5.3 mon
4e+6
3e+6
2e+6
1e+6
6e+5
4e+5
2e+5
0e+0
MOLAR ABSORPTIVITY ($M^{-1}cm^{-1}$)
MOLAR ABSORPTIVITY ($M^{-1}cm^{-1}$)
a
b
c
d
e
350
400
500
600
WAVELENGTH (nm)
WAVELENGTH (nm)

FIG.5


% QUANTUM YIELD
50
40
30
20
10
0 1 2 3 4 5 6
MONOLAYERS ZnS
1.6e+6
1.2e+6
8.0e+5
4.0e+5
0.0e+0
INTENSITY
(ARB. UNITS)
a
b
c
d
e
50
40
30
20
10
0
% QUANTUM YIELD
(RELATIVE TO
RHODAMINE 590)
520 540 560 580 600 620 640 660 680
WAVELENGTH (nm)